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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,652	07/10/2003	Daniel Fremberg	911568-665-001	4150
28104	7590	09/17/2008	EXAMINER	
JONES DAY			LIPMAN, JACOB	
77 WEST WACKER			ART UNIT	
CHICAGO, IL 60601-1692			PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/617,652	Applicant(s) FREMBERG, DANIEL	
	Examiner JACOB LIPMAN	Art Unit 2134	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 August 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-9 is/are allowed.
- 6) ☒ Claim(s) 10-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 10-18 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. An authenticator signal is not tangible, as it can include carrier waves for example.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 10-21, are rejected under 35 U.S.C. 103(a) as being unpatentable over Briscoe et al., USPub 2004/0187024 in view of Alkhatib et al., USPub 2004/0249974.

With regard to claims 10, 15, 19, and 20, Briscoe discloses an authentication protocol for increasing safety against a computer access attack for point-to-point communication ([0010]), between a client computer and a server ([0002]), to services in at least one of a network for data and telecommunication utilizing a challenge-response pattern ([0016]), including receiving from a client computer an authentication request containing a clients username to a server providing the services (secret signature), the server identifying the client computer IP address and a client password accessible by

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the server through the transmitted username (Fig 3) the server responding with an N byte nonce numerical value (issuing network entity [0045]), the authentication request including a hash value of at least the parameters clients password, client computer unique IP address, server unique IP address, and the nonce value ([0045]) receiving the hash value from the client computer as an authenticator for accessing the services ([0046]) and the server reproducing the authenticator by utilizing the hash algorithm and the parameters clients accessible password, client computer unique IP address, server unique IP address, and the nonce value, comparing the reproduction with the transmitted authenticator, and granting an access to the server and services if the reproduced authenticator matches the transmitted ([0064]). Briscoe does not teach using this protocol to prevent a man-in-the-middle attack. Further, Briscoe teaches using the same method for a client to verify the server ([0046]). Alkhatib discloses using a seed to thwart man-in-the-middle attacks ([0151], [0158]). The seed of Alkhatib is combined with the IP addresses in a similar manner as Briscoe. It would have been obvious for one of ordinary skill in the art to use the “cookie” of Briscoe to thwart the man-in-the-middle attack of Alkhatib since it is irreproducible by other parties, the stated motivation of Briscoe ([0046]).

With regard to claim 11, Briscoe discloses using a time parameter to create the nonce ([0046]), thus it will be different every time.

With regard to claim 12, Briscoe discloses that the seed of the nonce is random ([0044]).

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With regard to claim 13, and 14, Briscoe discloses the nonce includes a password (Ka) and a volatile value (timestamp) ([0046]).

With regard to claims 16 and 17, Alkhatib discloses HMAC-Sha-1 is a known hash function ([0133]). It would have been obvious for one of ordinary skill in the art to use SHA-1 as the hash function of Briscoe since it is a widespread standard and secure.

With regard to claim 18, Briscoe in view of Alkhatib discloses the protocol of claim 1, as outlined above, but does not disclose using salt. The examiner takes official notice that using salt is well known in the art. It would have been obvious for one of ordinary skill in the art to use salt in Briscoe to protect against dictionary attacks.

With regard to claim 21, Briscoe in view of Alkhatib discloses the protocol of claim 20, as outlined above, but does not disclose identifying an attacker. The examiner takes official notice that it is well known in the art to log attacks and attackers. It would have been obvious for one of ordinary skill in the art to identify the attacker of Briscoe in view of Alkhatib to increase future security against the attacker.

Allowable Subject Matter

5. Claims 1-9 are allowed.

6. The following is an examiner's statement of reasons for allowance: The examiner found applicant's arguments with regard to independent claim 1 persuasive.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB LIPMAN whose telephone number is (571)272-3837. The examiner can normally be reached on M-Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571-272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacob Lipman/
Examiner, Art Unit 2134